PCG-Z1A

SERVICE MANUAL

For American Area
US Model
Canadian Model

Ver 2-2003D

Revision History

Illust : PCG-Z1A

Lineup : PCG-Z1A

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- Design and specifications are subject to change without notice.

Notebook Computer

SONY

9-876-076-02

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Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate.
Dispose of used battery promptly.
Keep away from children.

CAUTION: Changing the back up battery.
- Overcharging, short circuiting, reverse charging, multilation or incineration of the cells must be avoided to prevent one or more of the following occurrence; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

✣✣✣

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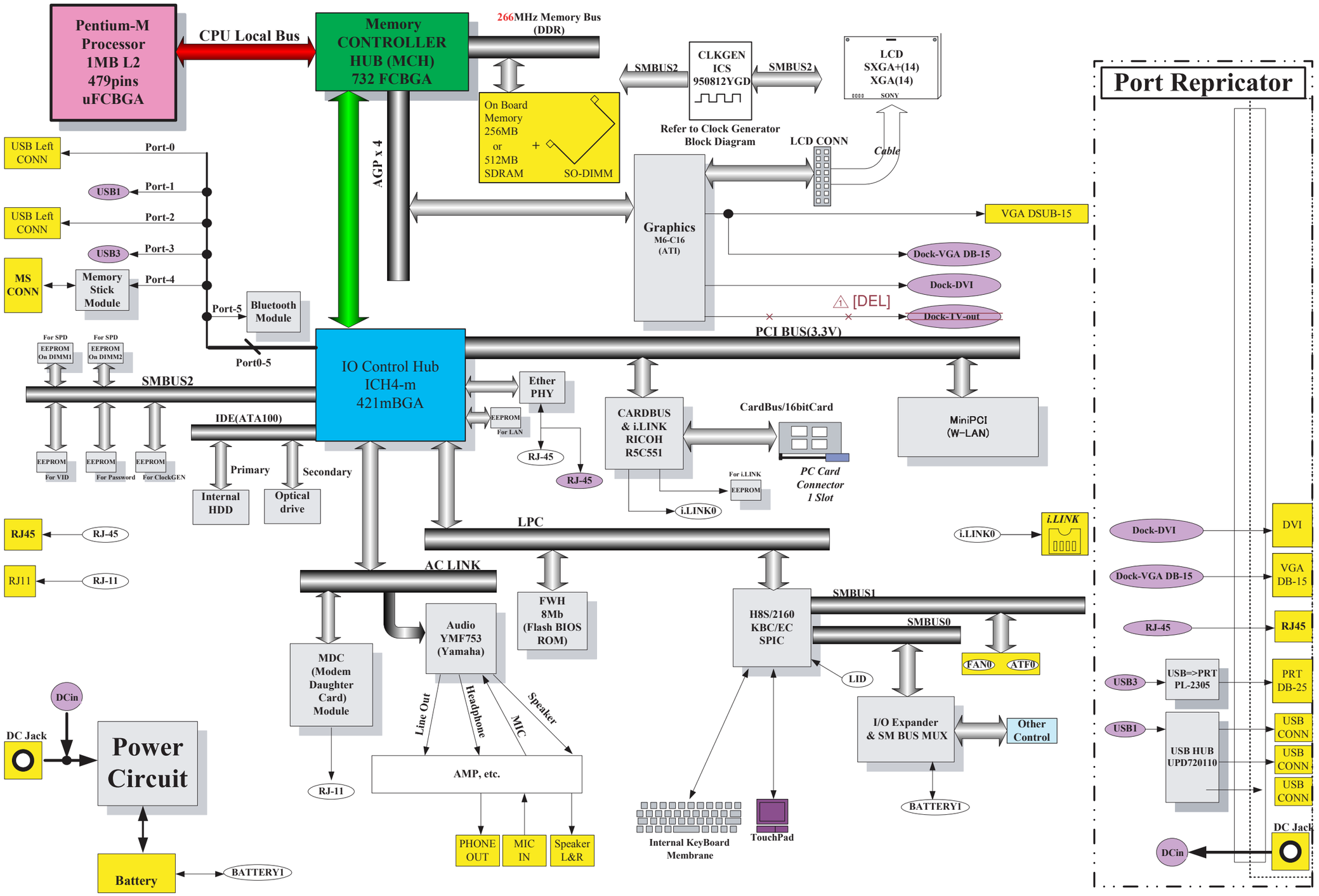
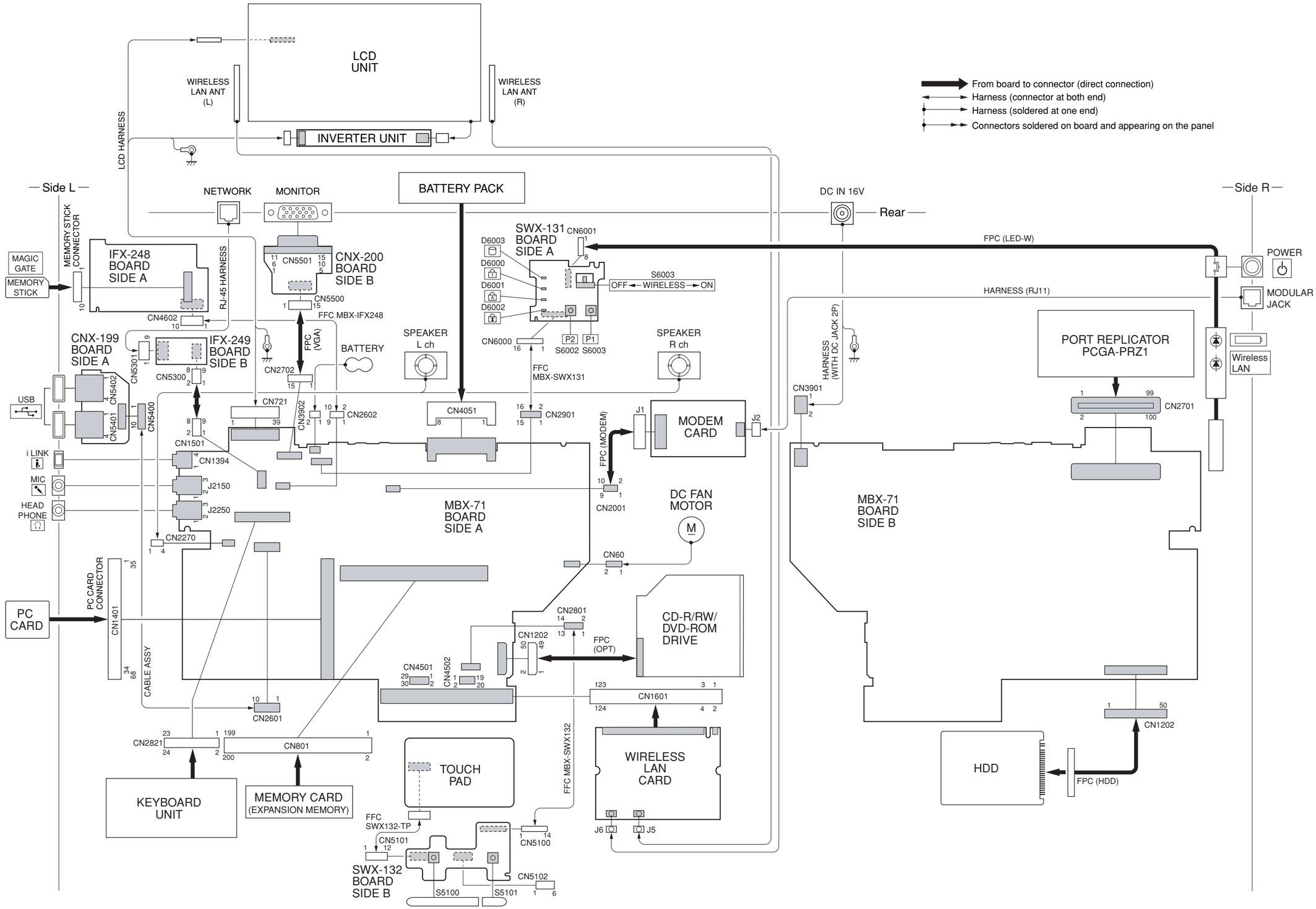
History of the changes is shown as the Revision History at the end of this data.

CHAPTER 1.
BLOCK DIAGRAM



CHAPTER 2.
FRAME HARNESS DIAGRAM



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CHAPTER 3.
EXPLODED VIEWS AND PARTS LIST

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- When two or more parts are shown in parallel, use the parts described first as the main part.
- The parts marked " $ " are the High Value Module.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

【使用上の注意】

・＊印の部品は常備在庫しておりません。
・図面番号のない部品は供給しません。
・併記部品の場合、上部記載部品をメイン部品として使用してください。
・部品名称の前に$ 印のついた部品は、High Value Moduleです。

⚠印の部品、または⚠印付きの点線で囲まれた部品は、安全性を維持するために重要な部品です。従って交換時は、必ず指定の部品を使用して下さい。

3-1. Main Section

Ref.No.	Part No.		Description
* 1	4-670-328-01		BRACKET (HDR)
2	A-8113-861-A	$	ASSY HDD 60GB (T-A) (S)
* 3	4-670-327-01		BRACKET (HDL)
7	1-796-622-11		TOUCH PAD
* 8	4-670-302-01		BRACKET (TP)
9	A-8067-820-A	$	COMPLETE PWB (PWB) (SWX-132)
10	1-824-948-11		CABLE, FLEXIBLE FLAT (SWX132-TP)
12	1-824-950-11		CABLE, FLEXIBLE FLAT (MBX-SWX132)
* 13	4-670-301-01		BRACKET (OD)
* 15	4-670-313-02		PLATE (PARM REST R)
* 16	4-670-303-01		PLATE (PARM REST L)
17	4-670-975-02		SHEET (TP)
18	X-4625-666-2		HOUSING (PARM REST) ASSY
19	1-824-947-11		CABLE, FLEXIBLE FLAT (MBX-IFX248)
20	A-8067-824-A	$	COMPLETE PWB (PWB) (IFX-248)
21	4-670-314-01		SHEET (MS)
22	4-670-294-02		ESCUTCHEON (JACK)
23	4-647-180-01		COIL SPRING
25	1-477-792-21		KEYBOARD UNIT (US)
26	6-600-116-01		IC M470L3224DTO-CB0
27	1-687-009-11		PWB, FLEXIBLE PRINT (HDD)
28	A-8114-653-A	$	MBX-71 (B) ASSY (S)
29	4-670-342-01		SHEET (PR)
30	1-817-281-11		CONNECTOR, PC CARD
31	4-670-321-01		SHEET (PCC)
32	1-694-760-21		JACK, SMALL TYPE
33	1-694-760-31		JACK, SMALL TYPE
34	4-662-881-02		CUSHION, KEY BOARD
37	4-670-343-01		SPACER (ETHER)
38	A-8067-821-A	$	COMPLETE PWB (PWB) (IFX-249)
39	1-962-080-11		HARNESS, RJ-45
40	1-756-038-11		BATTERY, NICKEL HYDROGEN
41	4-642-711-01		SHEET (BATTERY), ADHESIVE
42	4-674-010-01		THERMALPAD (MCH)
43	4-673-971-02		SHEET (CPU)
44	4-672-944-01		THERMAL SHEET (CPU)
45	4-672-491-01		SHEET (FIN)
46	4-672-945-01		GUARD (FIN)
47	1-763-964-12		DC FAN
48	4-672-493-01		COVER (SC)
* 49	4-670-332-02		HOLDER (DC)
50	1-961-978-11		HARNESS (WITH DC JACK 2P)
51	4-673-671-01		THERMALPAD (FET)
52	4-673-670-01		THERMALPAD (COIL)
53	1-687-012-11		PWB, FLEXIBLE PRINT (MODEM)
54	1-761-606-12		CARD, MODEM
55	1-825-310-11		SPEAKER, BOX WITH (2.3CM)
56	4-670-345-02		COVER (HINGE)
57	4-670-322-02		BASE, DISPLAY
58	4-671-461-01		TAPE (M)
59	4-671-235-01		SHEET (M)
60	1-962-037-11		HARNESS (RJ11)
61	1-687-011-11		PWB, FLEXIBLE PRINT (OPT)
* 62	4-670-346-01		BRACKET (ODR)
63	X-4625-673-2		BEZEL (ODP) ASSY

Ref.No.	Part No.		Description
64	1-796-626-11	$	COMBO DRIVE (UJDA745, 9.5MM)
* 65	4-670-330-01		BRACKET (ODL)
66	4-670-318-02		COVER (BT)
67	4-670-338-02		KNOB (BR)
68	4-670-336-02		KNOB (BL)
69	4-670-325-01		FOOT
70	4-671-074-01		LABEL (DOOR IO)
71	X-4625-671-2		DOOR (IO) ASSY
72	4-635-956-01		SPRING (B), COMPRESSION COIL
73	4-670-335-01		LEVER, RELEASE
74	4-670-341-01		SHEET (SCREW)
75	4-671-053-01		SHEET (SCREW S)
76	4-673-387-01		SHEET (BHF)
77	4-670-340-01		SHEET (BT)
78	4-670-319-01		COVER (PR)
* 79	4-670-333-01		LOCK (PR)
80	A-8067-822-A	$	COMPLETE PWB (PWB) (CNX-199)
81	1-794-548-21		CONNECTOR, USB (A)
82	1-824-973-11		CABLE ASSY
* 83	4-670-331-01		BRACKET (USB)
84	4-674-429-01		THERMAL PAD (GFX)
85	1-687-013-11		PWB, FLEXIBLE PRINT (VGA)
* 86	4-670-329-01		BRACKET (IO)
87	A-8067-823-A	$	COMPLETE PWB (PWB) (CNX-200)
88	1-824-946-11		CABLE, FLEXIBLE FLAT (MBX-SWX131)
89	1-687-010-11		PWB, FLEXIBLE PRINT (LED-W)
90	A-8067-819-A	$	COMPLETE PWB (PWB) (SWX-131)
91	1-761-660-11		CARD, WIRELESS LAN (CLX11B 11CH)
* 92	4-670-289-01		HEAT SPREADER
93	4-671-078-01		SHEET (MEMO), THERMAL
94	4-671-187-01		SHEET (HS)
95	4-673-386-01		SPACER (P)
96	4-671-077-01		SHEET (GFX), THERMAL
* 97	4-670-291-01		BRACKET (FAN)
98	4-671-186-01		SHEET (BFAN)
* 99	4-670-334-01		PLATE (GPC)
100	4-670-320-01		SHEET (MDC)
101	4-673-385-01		SHEET (GP)
102	4-670-324-02		HOUSING (BOTTOM)
103	4-671-707-22		LABEL, ID
104	4-673-768-01		SHEET (LED B)
105	4-674-795-01		SHEET (DC)
106	4-675-315-01		SHEET (K1035)
107	4-669-735-01		ADHESIVE TAPE (16SH)
108	4-675-270-01		SHEET (PW LED)
109	4-661-451-01		ADHESIVE TAPE TOUCHPAD
110	1-400-255-11		FERRITE CORE
111	4-674-011-01		CUSHION (BT)
112	4-675-434-01		SHEET (K)
113	————		FILAMENT TAPE (W12x30) (*1)
114	————		CAPTON TAPE (W10X20) (*2)
B1	4-672-839-01		HEAD, M3 FLAT
B2	4-673-648-01		GRIP, M2 (+B) (EG)
B3	4-639-112-31		SCREW M2X4

Ref.No.	Part No.	Description
B4	4-672-834-71	SCREW, +B EG GRIP
B6	4-672-834-61	SCREW, +B EG GRIP
B7	4-672-834-81	SCREW, +B EG GRIP
B8	4-672-834-51	SCREW, +B EG GRIP
B9	4-673-646-01	DIA. (4.6) (M2)
B10	4-673-647-01	M2 (+BSW)
B11	4-635-966-01	SCREW (HEX)
B12	4-673-751-01	NUT (M2) (TYPE2)
B13	4-671-538-01	SCREW (M2X4), SPECIAL HEAD
B16	4-672-834-91	SCRWE, +B EG GRIP

*1 Use the FILAMENT TAPE.
*2 Use the CAPTON TAPE.

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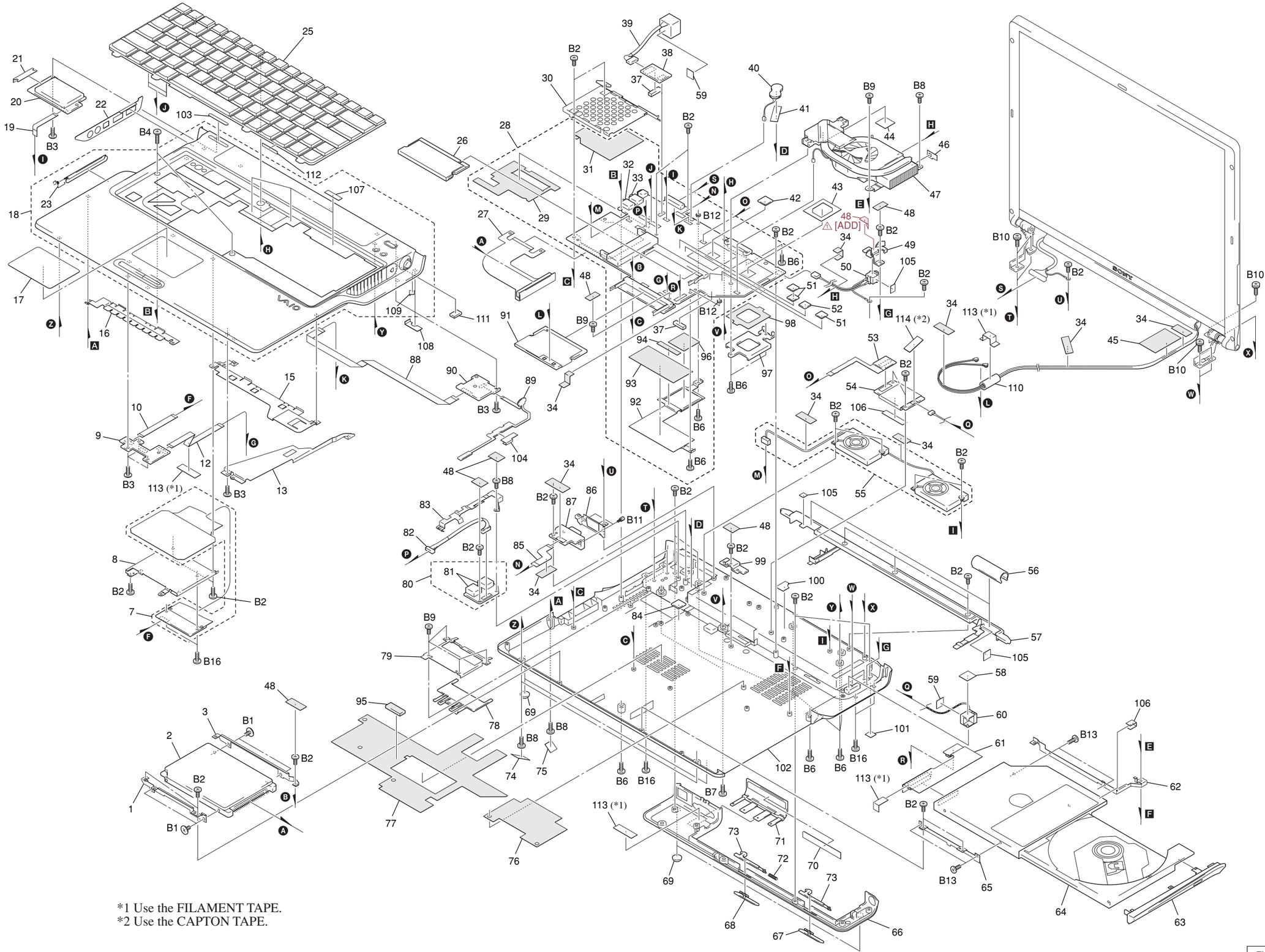
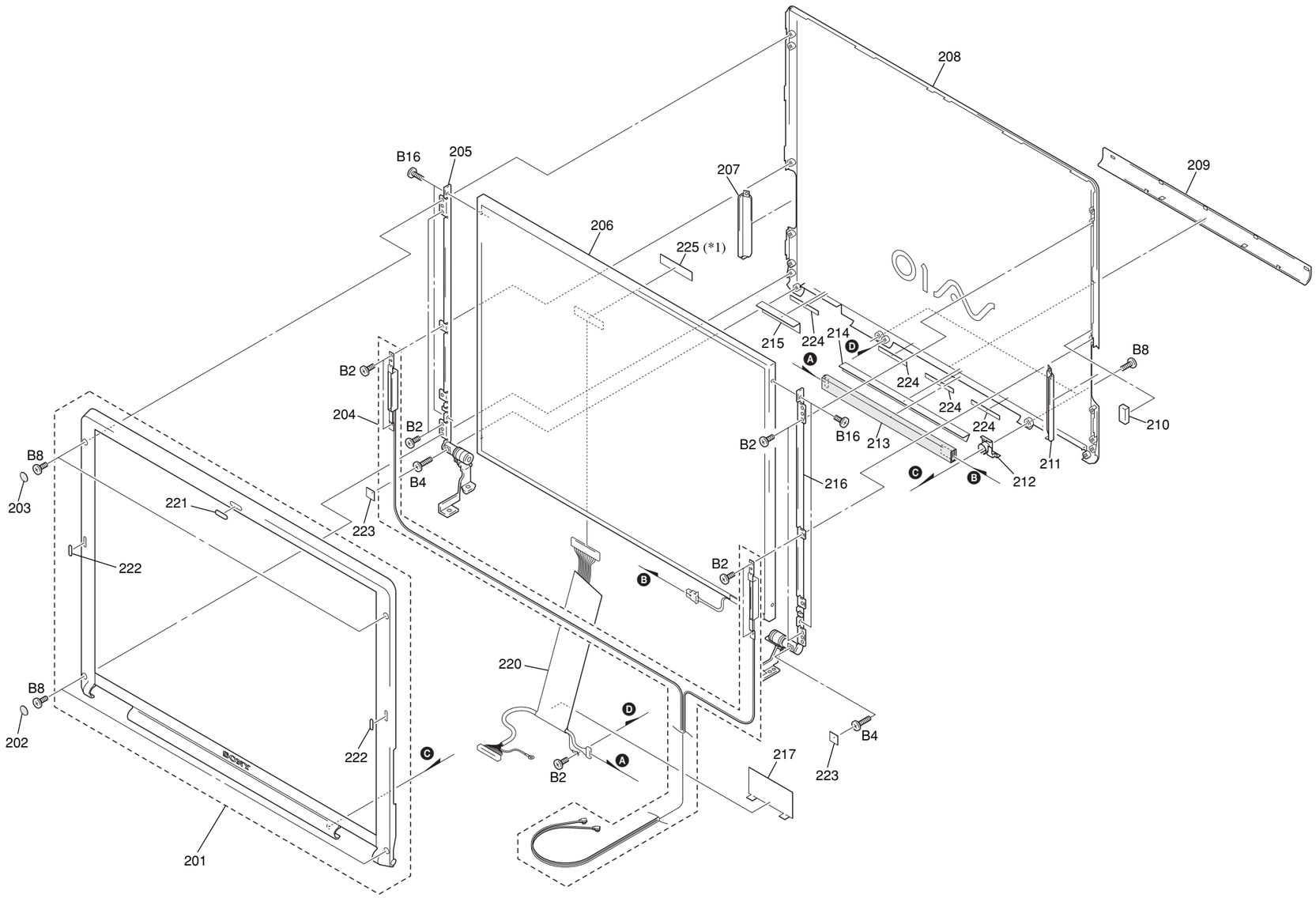

*1 Use the FILAMENT TAPE.
*2 Use the CAPTON TAPE.

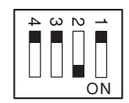
3-2. LCD Section - Made by TS -



Ref.No.	Part No.	Description
201	X-4625-667-2	HOUSING (BEZEL) ASSY
202	4-671-221-02	CAP (DOWN)
203	4-670-189-01	CUSHION (UP)
204	1-754-292-12	ANTENNA (2.4GHZ L AND R)
205	4-669-620-02	HINGE (L)
206	A-8114-655-A $	LCD UNIT (SXGA+) (S)
207	4-669-613-02	COVER (WLL)
208	A-8114-751-A $	DISPLAY ASSY (S)
209	4-669-615-02	COVER (DISPLAY)
210	4-669-622-01	MAGNET
211	4-669-614-02	COVER (WLR)
212	4-669-612-01	COVER (CABLE)
213	1-477-610-11	INVERTER UNIT
214	4-675-311-01	SHEET (WLCL)
215	4-673-641-01	SHEET (CORNER)
216	4-669-621-02	HINGE (R)
217	4-671-222-01	SHEET (LH)
220	1-961-999-11	HARNESS, LCD (SXGA+)
221	4-670-188-01	CUSHION (CENTER)
222	4-670-190-01	CUSHION (SIDE)
223	4-675-342-01	SHEET (HIS)
224	4-675-312-01	ADHESIVE TAPE (WLCL)
225	————	CAPTON TAPE (W10X30) (*1)
B2	4-673-648-01	SCREW, M2 (+B) (EG)
B4	4-672-834-71	SCREW, +B EG GRIP
B8	4-672-834-51	SCREW, +B EG GRIP
B16	4-672-834-91	SCREW, +B EG GRIP

*1 Use the CAPTON TAPE.

Note:
Set the DIP switch on the MBX-71 board (Main board) to match with the LCD that is used in this computer.



The lower position where ON indication is shown is the ON position. The upper position is the OFF position.

No.	1	2	3	4
ON/OFF	1	0	1	1

0 : ON 1: OFF

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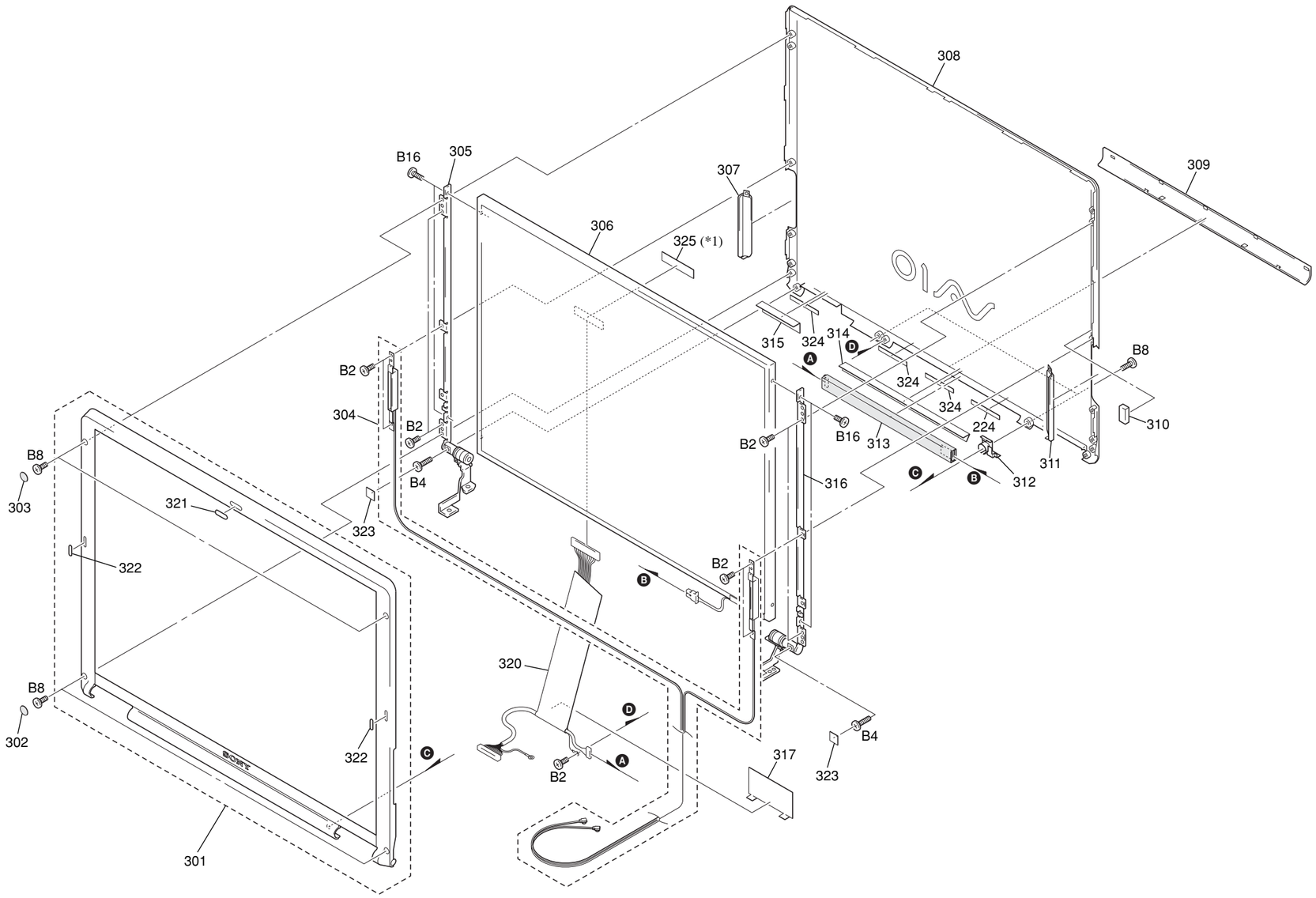
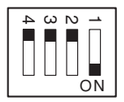
3-3. LCD Section (CTO Model) - *Made by HI -*



Ref.No.	Part No.	Description
301	X-4625-667-2	HOUSING (BEZEL) ASSY
302	4-671-221-02	CAP (DOWN)
303	4-670-189-01	CUSHION (UP)
304	1-754-292-12	ANTENNA (2.4GHZ L AND R)
305	4-669-620-02	HINGE (L)
306	A-8113-928-A $	LCD UNIT (14.1XGA) (H) (S)
307	4-669-613-02	COVER (WLL)
308	A-8114-751-A $	DISPLAY ASSY (S)
309	4-669-615-02	COVER (DISPLAY)
310	4-669-622-01	MAGNET
311	4-669-614-02	COVER (WLR)
312	4-669-612-01	COVER (CABLE)
313	1-477-610-11	INVERTER UNIT
314	4-675-311-01	SHEET (WLCL)
315	4-673-641-01	SHEET (CORNER)
316	4-669-621-02	HINGE (R)
317	4-671-222-01	SHEET (LH)
320	1-962-000-11	HARNESS, LCD (XGA)
321	4-670-188-01	CUSHION (CENTER)
322	4-670-190-01	CUSHION (SIDE)
323	4-675-342-01	SHEET (HIS)
324	4-675-312-01	ADHESIVE TAPE (WLCL)
325	————	CAPTON TAPE (W10X30) (*1)
B2	4-673-648-01	SCREW, M2 (+B) (EG)
B4	4-672-834-71	SCREW, +B EG GRIP
B8	4-672-834-51	SCREW, +B EG GRIP
B16	4-672-834-91	SCREW, +B EG GRIP

*1 Use the CAPTON TAPE.

Note:
Set the DIP switch on the MBX-71 board (Main board) to match with the LCD that is used in this computer.



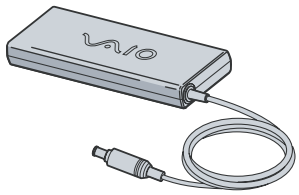
The lower position where ON indication is shown is the ON position. The upper position is the OFF position.

No.	1	2	3	4
ON/OFF	0	1	1	1

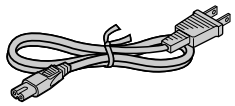
0 : ON 1: OFF

3-4. Accessories

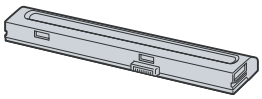
801
AC Adaptor



802
Power Cord



803
Battery Pack



Ref.No.	Part No.		Description
			ACCESSORIES
			**********
⚠ 801	1-477-749-21	$	ADAPTOR, AC
⚠ 802	1-757-562-21		CORD, POWER
803	A-8114-137-A	$	BP2V (U) ASSY (S)
	4-671-720-11		QUICK START

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

List of PCG-Z1 Series (As of April, 2003)

Model Name	Service Manual Parts No.	
PCG-Z1A	9-876-076-01	☜

☜ : Additional Models

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English
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9-876-076-02

Sony Corporation

Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2003.03.10	First Edition	
-02	Ver. 2	2003.04.07	⚠1 **Page 1-2, Page 3-5**	N2003_022CK

<Remarks>